

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF PESTICIDE REGULATION  
MEDICAL TOXICOLOGY BRANCH  
SUMMARY OF TOXICOLOGY DATA

**ISOPARAFFINIC HYDROCARBONS**

Chemical Code # 001641, Tolerance # 50667, SB 950 # 713

Original date: November 2, 1987

Revised date: 12/9/87; 7/19/01

I. DATA GAP STATUS

Chronic, rat:	Data gap, no study on file
Chronic, dog:	Data gap, no study on file
Oncogenicity, rat:	Data gap, no study on file
Oncogenicity, mouse:	Data gap, inadequate study, possible adverse effect indicated
Reproduction, rat:	Data gap, no study on file
Teratology, rat:	Data gap, no study on file
Teratology, rabbit:	Data gap, no study on file
Gene mutation:	Data gap, inadequate study, no adverse effect indicated
Chromosomal aberration:	Data gap, inadequate study, no adverse effect indicated
DNA damage:	Data gap, no study on file
Neurotoxicity:	Not required at this time

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**Note, Toxicology one-liners are attached**

\*\* indicates acceptable study.

**Bold face** indicates possible adverse effect.

Toxicology Summary Original: J. Gee, 11/2/87; Revised: C. Aldous, 12/9/87; J. Kishiyama, & M. Silva, 7/19/01

File name: T010719

## II. TOXICOLOGY ONE-LINERS AND CONCLUSIONS

These pages contain summaries only. Individual worksheets may contain additional effects.

## COMBINED, RAT

no study on file

## CHRONIC TOXICITY, RAT

no study on file

## CHRONIC TOXICITY, DOG

no study on file

## ONCOGENICITY, RAT

no study on file

## ONCOGENICITY, MOUSE

no study on file

## REPRODUCTION, RAT

no study on file

## TERATOLOGY, RAT

no study on file

## TERATOLOGY, RABBIT

no study on file

## GENE MUTATION

50667 - 001 037857 "In vitro Microbiological Mutagenicity Studies of Phillips Petroleum Company Hydrocarbons Propellants and Aerosols." (Stanford Research Institute, 5/13/77) Tested propellants A-17, A-31, A-108 and F plus aerosols D and E (See letter dated October 11, 1985 for components of A-31 and A-108 in 50667-001); tested with Salmonella strains TA1535, TA1537, TA1538, TA98 and TA100 with and without rat liver activation for 8 and 48 hours at 1 to 50% of the atmosphere above the plates in a dessicator; tested twice on separate days; methylene chloride as the positive control was not effective in TA1537 or TA1538; no increase in reversion rate reported; cytotoxicity by decrease of spontaneous reversion rate with aerosol D, aerosol E and propellant F at higher concentrations; UNACCEPTABLE (no description of propellants A-17 and F and aerosols D and E; no individual plate counts or number of plates per trial; positive control was not effective in two strains). JG, 10/28/87.

50667 - 001 037858 "Salmonella typhimurium Mammalian Microsome Plate Incorporation Assay - Soltrol 130 - Final Report." (Hazleton, 8/13/82). Isoparaaffinic hydrocarbons (Soltrol 130), C10-C13 isoparaaffins, "assumed 100%"; tested with strains TA 1535, TA1537, TA98 and TA 100 with and without rat liver activation, single trial with triplicate plates; 0, 41.2, 123.5, 370.4, 1111.1, 3333.3 or 10000 ug/plate; no increase in reversion rate reported. UNACCEPTABLE - single trial with no demonstration of cytotoxicity at highest concentration and no analysis of test article to demonstrate exposure of Salmonella. JG, 10/28/87.

50667 - 001 037859 "Mouse Lymphoma Forward Mutation Assay - Soltrol 130 - Final Report." (Hazleton, 8/2/82) Isoparaaffinic hydrocarbons (Soltrol 130), C10-C13 isoparaaffins, "assumed 100%"; tested with rat liver activation at 0, 83, 118, 168, 240 343, 490, 700 or 1000 ug/ml (1000 stated to limit of solubility) and without activation at 0, 8.3, 11.8, 16.8, 24.0, 34.3, 49, 70, or 100 mg/ml; generalized protocol indicates a 4 hour incubation with test material; no increase in mutation frequency reported; UNACCEPTABLE (single trial, inadequate report - single page plus one table of summary data which contains only "total survival" in percent and "mutation frequency"; no individual plate counts, not total colony counts, no data for growth by days; only generalized protocol not specified for this study - the full report with raw data should be submitted.) JG, 10/28/87.

#### CHROMOSOME EFFECTS

50667 - 001 037860 "In vitro sister Chromatid Exchange in Chinese Hamster Ovary Cells - Soltrol 130 - Final Report." (Hazleton, 1/13/83) Isoparaaffinic hydrocarbons, Soltrol 130, "assumed 100%"; tested in Chinese hamster ovary cells with and without rat liver activation at 0, 0.5, 1.7, 5.0, 17 or 50 mg/ml based on growth inhibition (no data): two hour exposure; scored 50 metaphases per concentration for sister chromatid exchanges; no increase in incidence reported; UNACCEPTABLE (only generalized protocol with a single page specific for this study and one table of summary data - need full report with cytotoxicity data to justify concentrations used. Explanation for including cyclohexane in the table when the solvent was stated to be DMSO.) JG, 10/28/87.

#### DNA DAMAGE

no study on file

#### NEUROTOXICITY

no study on file